

## CLAIMS

1. A method for determining a material in vitro having an LAK activity-enhancing effect suitable for a subject, comprising the steps of:

(a) isolating peripheral blood from the subject to prepare lymphocyte fractions,

(b) preparing an LAK-induced sample, which is produced by treating said lymphocyte fractions with a screening material of the present invention, and a control sample, which is produced in the absence of the screening material, and

(c) measuring and comparing the LAK activity of said induced sample and said control sample to determine the in vitro LAK activity-enhancing effect of the screening material for said subject.

2. The method of claim 1 wherein the screening material is an extract of *Lentinus edodes* mycelium.

3. A screening material containing an extract of *Lentinus edodes* mycelium capable of being used in the in vitro screening method of claim 1 to screen if the LAK activity can be enhanced in vivo.

4. A method for treating a tumor of a subject by in vivo administering the screening material of claim 2.